

# Seventh Annual Clean Cities Conference and Expo

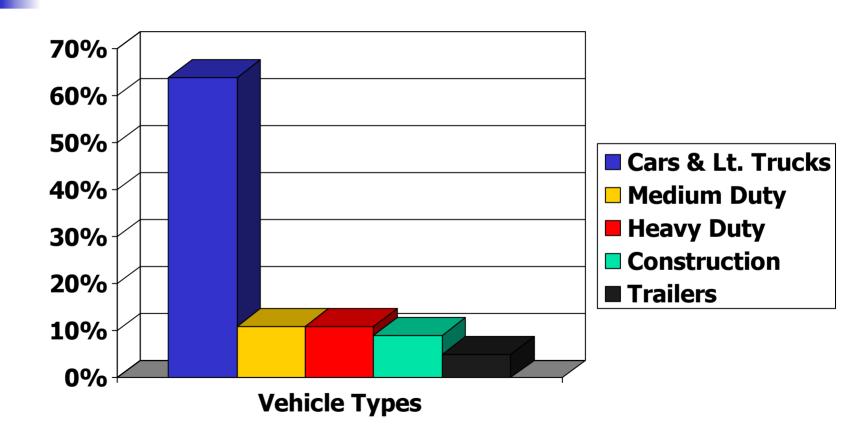
Philadelphia, May 13-16, 2001

Presented by: Steven M. Park
Director, Equipment and Building Services
City of Dallas

### City of Dallas Fleet

- Equipment and Building Services (EBS) is responsible for over 4,750 vehicles:
  - Purchase and replacement
  - Full maintenance service
  - Purchase and dispensing of 6.7 million gallons of fuel annually

#### Fleet Composition



### Air Quality Issues

- City of Dallas designated as a serious nonattainment area
- State Legislative requirements for alternative fuel purchases
  - 10% of total fleet by 9/1/98 or 30% of vehicle purchases after 9/1/98
  - 50% of purchases after 9/1/00
  - 70% of light duty fleet purchases after 9/1/02 and 50% of heavy duty purchases after 9/1/02

## Dallas Response

- Alternative fuel vehicle (AFV) program began in spring 1992
- Use of public access stations to promote growth
- Compressed Natural Gas (CNG) selected:
  - 14 dedicated natural gas pickups purchased in FY92
  - Vehicle bi-fuel conversions
    - 50 in FY 92/93
    - 261 in FY 93/94

### **Early Obstacles**

- User acceptance of new fuel type
  - Bi-fuel vehicles leave users with easier gas options
- Fears of high-pressure cylinders
  - First natural gas vehicles recalled
- Limited range of travel on CNG
  - Bi-fuel capacity limited by space requirements
- Sacrifice of pickup bed space for additional fueling cylinders
- Driving performance of bi-fuel vehicles
- Different & limited fueling locations



- Decision to purchase only dedicated CNG vehicles
  - Mandates use of alternative fuel
  - Addresses distance factor
  - Improved reliability & performance

#### Vehicle Acquisition

- With every fleet purchase, the City has aggressively sought to use alternative fuel vehicles if at all feasible
- Recent vehicle purchases of dedicated CNG vehicles with ILEV certification

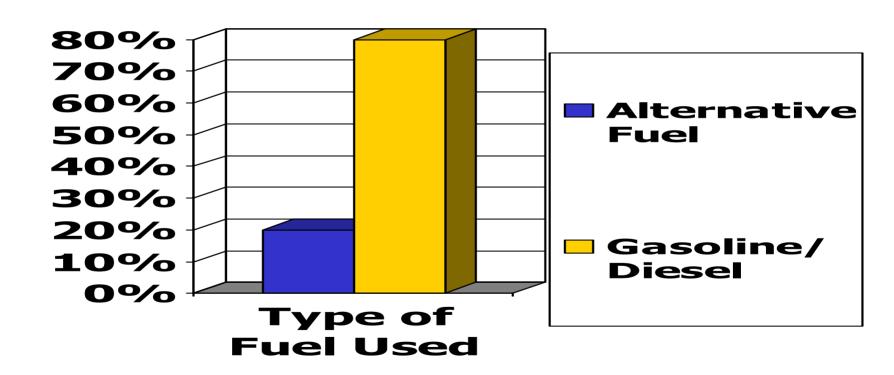
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• FY 97 -- 101 FY 00 -- 335
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• FY 99 -- 117

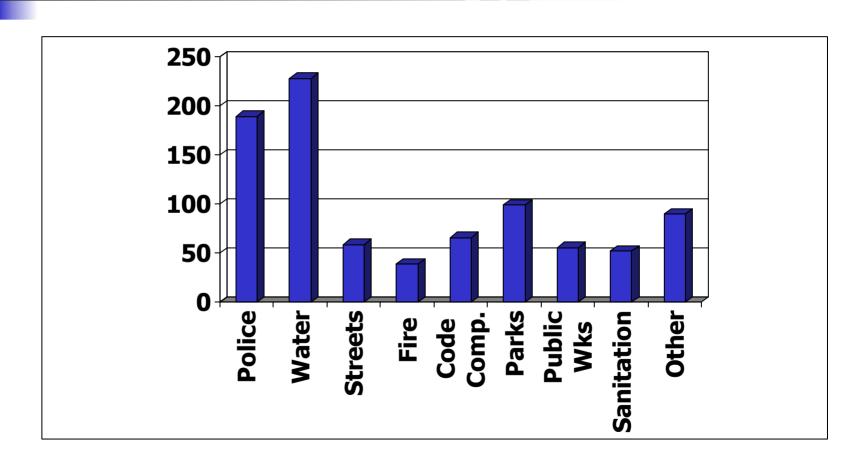


- In FY 00/01, Dallas ordered 10 hybrid/electric vehicles
  - To broaden the mileage range available, in turn allowing additional vehicles with specific long-range needs to use an alternative fuel
  - To evaluate performance and clean air aspects

#### FY 2000/2001 Status



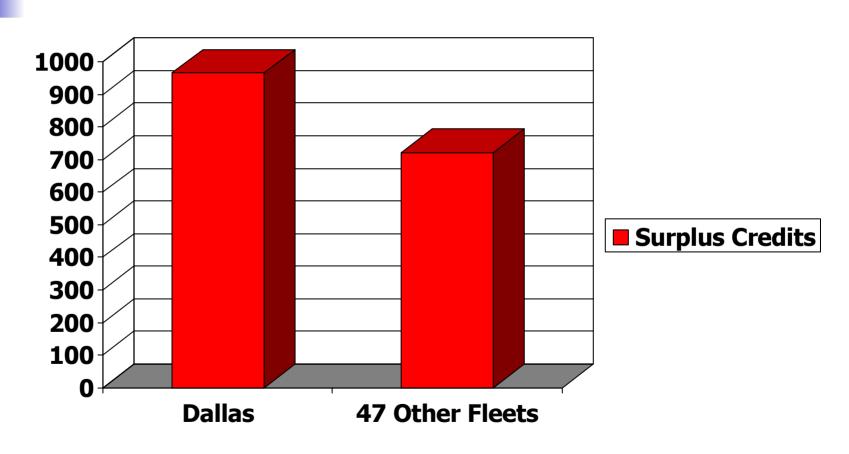
# Alternative Fuel Vehicles by Department



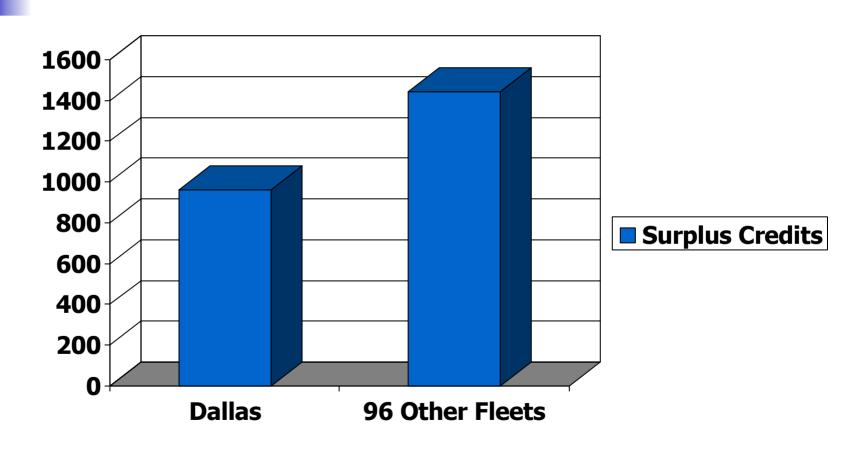
## Successes

- Dallas purchases AFV's in categories exempt from the regulations
- Dallas purchases AFV's with cleaner LEV ratings than required
- Dallas purchases more AFV's than required
- Results in additional surplus credits for clean air actions

# D/FW Non-attainment Area TNRCC Report-Dec. 2000



# Texas Statewide TNRCC Report-Dec. 2000



## Funding

- Dallas has utilized over \$3 million in Congestion Mitigation and Air Quality Improvement Program funds administered by the North Central Texas Council of Governments that reimburse over 80% of incremental costs
- Matching funds are included in fleet replacement budget



- Acceptance of CNG vehicles for administrative police and fire functions
- Departmental attempts to choose "necessary" options unavailable on CNG vehicles
- Remote City facilities with limited access to close CNG fueling sites

#### **Future Needs**

- Additional vehicle types, especially heavy trucks and heavy equipment
- Additional equipment options, such as extended cabs and crew cabs on pickups
- Extended range capacity per tank
- Additional fueling sites-especially to allow travel outside the city limits
- Additional CNG providers